

SARBAYEV, N.; MACHKASOV, N.

According to ~~the~~ law and prompted by the conscience. Sov.
profsoiuzy 19 no.16:10-11 Ag '63. (MIRA 16:10)

1. Predsedatel' zavodskogo komiteta Ul'yanovskogo avtozavoda (for Sarbayev). 2. Zamestitel' predsedatelya zavodskogo komiteta Ul'yanovskogo avtozavoda (for Machkasov).

MACHKASOV, Ye. I.

MACHKASOV, Ye. I.: "A study of the process of drying sulfides of lead and zinc concentrates in a drum dryer". Alma-Ata, 1955. Acad Sci Kazakh SSR. Inst of Metallurgy and Ore Dressing. (Dissertations for the Degree of Candidate of Technical Sciences.)

So: Knizhnaya letopis' No. 49, 3 December 1955. Moscow.

МОНЧКАСОВ, Ye. I.

18(563) PHASE I BOOK EXPLOITATION SOV/2004

Академия наук Казахской ССР. Институт металлургии и обогатительных процессов

Труды, т. 1 (Transactions of the Institute of Metallurgy and Ore Dressing, Kazakh SSR Academy of Sciences, Vol. 1) Alma-Ata, Izd-vo AN Kazakhskoy SSSR, 1959. 159 p. 1,225 copies printed.

Ed. I. Ye. M. Kuznetsov, Tech. Ed.: Z. P. Rorokina; Editorial Board: V. D. Ponomarev (Resp. Ed.), B. N. Lebedev, A. M. Orlovich, L. P. N. A. Iokova, L. N. Polyvanyan (Resp. Secretary), and Ye. I. Ponomareva.

PURPOSE: This book is intended for metallurgists and metallurgical engineers.

COVERAGE: This is a collection of articles dealing with various aspects of process metallurgy, principally nonferrous, and with related matters such as treatment of ore concentrates, properties of slags, etc. Topics discussed include precipitation of copper from slags, extraction of arsenic from slags, recovery of rare metals from smelting dust, electrorefining, precipitation of lead and zinc, and drying of lead-zinc concentrates. Three articles are concerned with the metal rhodium. The articles are accompanied by Soviet and non-Soviet references.

TABLE OF CONTENTS:

Ponomareva, Ye. I., P. P. Tsyp, Ye. L. Shalvaia, A. G. Batyuk, and Yu. M. Moshulin. Extraction of Nonferrous and Rare Metals from Furnace Dust at the Chirchikent Lead Plant	76
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S/137/61/000/012/036/149
A006/A101

AUTHORS: Machkasov, Ye.I., Ponomarev, V.D., Spivak, Yu. M.

TITLE: Investigating the granulation process of high-titanium slag

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 17-18, abstract 12G125 (Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ognepetrov, 1961, no. 1 (10), 41 - 47, Kaz. summary)

TEXT: The authors studied the granulation process of high-titanium slag under large-scale laboratory conditions. The charge intended for granulation consisted of a mixture of Ti-slag and petroleum coke of -0.25 mm fraction. Sulfite alkali of 1.12 specific weight was employed as a binding solution. It was established that granulation of an unpreheated Ti-containing charge with 33% petroleum coke in a granulator with 500-mm cup diameter and 40 mm rim height, is expedient under the following conditions: rpm of the cup - 40; tilting angle of the cup - 30°; amount of binder - 18-20% at 3:1 ratio of sulfite-alkali and water. Under these conditions maximum yield of granules of -5+1 mm fraction (60-

Card 1/2

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A006/A101

Investigating the granulation process ...

70%) is obtained, as well as their highest strength (310 - 610 g/mm²). Holding the granules at 800°C for 1 hour is sufficient for the evaporation of moisture and organic components. ✓

G. Svodtseva

[Abstracter's note: Complete translation]

Card 2/2

S/137/62/000/001/027/237
A060/A101

AUTHORS: Machkasov, Ye. I., Ponomarev, V. D.

TITLE: On the problem of obtaining titanium from the slimes of the alumina industry

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 17, abstract 10134
("Metallurg. i khim. prom-st' Kazakhstana. Nauchno-tekhn. sb.",
1961, no. 2(12), 61-67)

TEXT: The author studied the possibility of obtaining $TiCl_4$ from the slimes of the alumina industry. It was attempted to chlorinate the plain slime mixture with a reducer, to chlorinate in two stages (with and without a reducer), and to chlorinate the granulated mixture of slime and reducer. For obtaining $TiCl_4$ it is recommended to use the method of chlorinating granulated charge in a fluidized bed. Thus, by chlorinating granulated slime 92% of the Ti was extracted in 30 - 45 min; by chlorinating a plain mixture for 180 min, 53% of the Ti was extracted.

[Abstracter's note: Complete translation]

G. Svodtseva

Card 1/1

MACHKASOV, Ye.I.; PONOMAREV, V.N.; SPIVAK, Yu.M.; SULEYMENOV, E.N.

Enlarged unit for the chlorination of titanium bearing raw
materials in a fluidized bed. Trudy Inst. met. i obogashch.
AN Kazakh. SSR 4:51-61 '62. (MIRA 15:8)
(Titanium--Metallurgy) (Fluidization)

MACHKASOV, Ye.I.; ZAZUBIN, A.I.; KATKOV, Yu.A.; SPIVAK, Yu.M.

Enlarged plant for the drying, hardening, and roasting
of raw materials in a fluidized bed. Trudy Inst. met.
i obog. AN Kazakh. SSR 5:130-140 '62. (MIRA 15:11)
(Fluidization)

SULEYMENOV, E.N.; GOL'DMAN, M.M.; SHUSTER, R.L.; MACHKASOV, Ye.I.; NI, L.
P.; PONOMAREV, V.D.

Studying the formation of fibers in mineral wool with the method
of high-speed cinematography. Izv. AN Kazakh. SSR. Ser.tekh. i
khim.nauk no.3:28-33 '64. (MIRA 17:2)

SULEYMENOV, E.N.; MACHKASOV, Ye.I.; PONOMAREV, V.D.

Chlorination in a fluidized bed of high-titanium slags with
a varying content of calcium oxide. Trudy Inst. met i obog.
AN Kazakh. SSR 9:32-38 '64. (MIRA 17:9)

GOL'DMAN, M.M.; SHUSTER, R.L.; MACHKASOV, Ye.I.; NI, L.P.; PONOMAREV, V.D.

Obtaining mineral wool from slimes of nephelyne rock processing.
Trudy Inst. met. i obog. AN Kazakh. SSR 9:112-115 '64.
(MIRA 17:9)

SULEYMENOV, E.N.; MACHKASOV, Ye.I.

Methods of concentration and recovery of vapor-form chlorination products. Trudy Inst. met. i obog. AN Kazakh. SSR 8:
19-31 '63
(MIRA 17:8)

PONOMAREV, V.D.; SILVAN, Ye.M.; POLOVINSKY, Ye.I.

Filter-separation of isobutylene m.p. 100-110°C. met. 1 obzr.
AN Kazakh. SSR 24226-1984/84 (MIRA 17:8)

GOL'DMAN, M.M.; SHUSTER, R.L.; MACHKASOV,, Ye.I.; SAZHIN, Yu .G.;
SULEYMEYNOV, E.N.; SPIVAK, Yu.M.; NI, L.P.; PONOMAREV. V.D.

Utilizing nepheline pulp, lean in calcium oxide for needs of
the construction industry. Trudy Inst. met. i obog. AN Kazakh.
SSR 8:122-125 '63 ;
(MIRA 17:8)

MACHKASOV, Ye.I.; SUFYANOV, V.I.; 1963, V.1.

Investigating the chlorination process of granulated high-titanium
slag in a fluidized bed. Izv. inst. met. i obog. AN Kazakh.SSR
8:32-39 '63 (MIRA 17:8)

MACHKHINA, Z.S., starshaya meditsinskaya sestra

Massage and exercise as a therapeutic factor in rickets in children.
Med. sestra 20 no.3:32-34 Mr '61. (MIRA 14:5)

1. Iz Kuybyshevskoy oblastnoy klinicheskoy bol'nitsy.
(RICKETS) (EXERCISE THERAPY) (MASSAGE)

MACHKOV, Ivan

The "8th Congress of the Bulgarian Communist Party" Rationalization
Brigade. Ratsionalizatsiia no.8:16-18 '62.

MACHKOV, Ivan

Technical planning office, center of scientific and technical knowledge. Tekh delo 13 no.430:2 9 Je '62.

1. Tekhnicheskiiat kabinet pri silnotokovlia zavod "Vasil Kolarov," Sofia.

MACHKOV, Ivan

Public design offices helping rationalizers.
Ratsionalizatsiia no.11:19-20 '62.

MACHKOV, Ivan

Pioneers of high-quality and inexpensive production. Ratsionalizatsiia
13 no.7:12-15 '63.

MACHKOV, Iv.

V. Kolarov Plant for Electric High-Voltage Equipment at the
21st International Fair in Plovdiv. Tekhnika Bulg 13 no.7:36
'64

МАШИНОВ, Ю. А.

PHASE I BOOK EXPLOITATION		SOV/4896
Moskovskiy dom nauchno-tekhnicheskoy propandandy Izdat P. E. Dzerzhinskogo		
Avtomaticheskaya rotornaya liniya - sredstvo kompleksnogo avtomatizatsii proizvodstva. (Rotary-Transfer Machine Lines Means of Full Automation of Production) Moscow, Mashiz, 1960. 221 p. 10,000 copies printed.		
Ed. I. E. Konshina; Ed. of Publishing House: I. Vasil'yeva; Tech. Ed. I. G. V. Buzinovskiy; Managing Ed. for Literature on Metalworking and Machine-Tool Making: V. I. Alkin, Engineer.		
PURPOSE: The book is intended for technical personnel in the machin- ery industry.		
COVERAGES: This collection of articles explains the principles of full automation based on the use of rotary transfer machines in various industries. The rotary operational transfer machines used in various processing are discussed, and also the special power equipment and accessories for these machines and (production) lines. So personalities are mentioned. There are no references.		
Koshkin, I. E. Basic Problems in the Full Automation of Product Manufacture		
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AVAILABLE: Library of Congress (TJ1189, M6)		
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SYROVATKA, A.; VONDRACEK, J.; MACHKOVA, B.

Accident mortality of children 1-14 years of age in Czechoslovakia during 1950-1963. Cesk. zdrav. 13 no.9:450-465 S '65.

1. Ustav pro peci o matku a dite v Praze a Matematicky ustav Ceskoslovenske akademie ved v Praze.

MACHKOVA, R.P.; SMIRNOVA, N.B.

Copy the work practices of the twister operator. Khim. volok.
no.2:65 '65. (MIRA 18:6)

1. Klinskiy kombinat.

MACHKOVSKIY, A. I.

Levin, I. M., Machkovskiy, A. I. and Goncharova, G. G.
"Experience of the work of a blast furnace on heating
sinter cake," Trudy Stalinskogo obl. otob-niya, VNITOM,
No. 1, 1949, p. 14-20

SO: U-5241 , 17 December 1953, (Letopis 'Zhurnal 'n kn Statey, No. 26, 1949)

MACHKOVSKIY, A. I.

ca

Experiments on two-layered sintering together in the
Machkov sintering works. A. I. Machkovskiy and A. A.
Arbuzov. *Ural. Mt.* 1937, No. 5, 38; *Chem. Zentr.*
1938, 1, 3530. — Expts. carried out on a plant scale on the
2-layered sintering of Fe ores showed that under the same
conditions the output of the plant was less with 2-layered
sintering than with the 1-layered process. The quality of
the agglomerate was also essentially lower. M. G. M.

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ASB. 5.6. METALLURGICAL LITERATURE CLASSIFICATION

MACHKOVSKIY, A.I.

25(5)

PHASE I BOOK EXPLOITATION

SOV/1841

Zaytsev, Khaim Pinkhusovich, and Abram Iseakovich Machkovskiy

Organizatsiya i planirovaniye proizvodstva na aglomeratsionnykh fabrikakh
(Organization and Planning of Production in Sintering Plants) Moscow,
Metallurgizdat, 1959. 204 p. Errata slip inserted. 2,000 copies printed.

Eds.: I.S. Gokhman, and Ya. I. Dashevskiy; Ed. of Publishing House: Ye.S. Khutorskaya;
Tech. Ed.: P.G. Islent'yeva.

PURPOSE: This book is intended for skilled workers, engineers, and technicians in
ore sintering plants and may be used by students in institutes and technical
schools.

COVERAGE: The book briefly describes the engineering and economic nature of ore
sintering, and outlines the basis for and calculation of a production program.
The authors cover: 1) production organization in the main sectors of a sintering
plant 2) cost planning of the sinter, and 3) organization of production manage-
ment. The text contains data on Soviet and non-Soviet sintering practices.

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Organization and Planning of Production (Cont.)

SOV/1841

Soviet material was gathered by plant laboratories and other research institutions. No personalities are mentioned. There are 49 Soviet references.

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Organization and Planning of Production (Cont.)

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191

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AVAILABLE: Library of Congress

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JG /gmp
8-7-59

MACHKOVSKIY, A.I.

Production of fluxed sinter. Metallurg 5 no. 12:35-37
D '60. (MIRA 13:11)

1. Glavnyy aglomeratchik Dnepropetrovskogo sovnarkhoza.
(Sintering)

MACHKOVSKIY, Abram Isaakovich; SELEZNEV, Andrey Yefimovich; VEGMAN, Ye.F.,
red.; PTITSYNA, V.I., red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Sintering of iron ore concentrates] Okuskovanie zhelezorudnykh
kontsentratov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po
cherno i tsvetnoi metallurgii, 1961. 132 p. (MIRA 14:9)
(Sintering)

MACHKOVSKIY, A.I., 'inzh.

Improving the quality of fluxed sinter and the acceleration
of its production. Biol. TSIICHM no.2:1-12 '61. (MIRA 14:9)
(Sintering)

MACHKOVSKIY, A.I.

Improvement of the technology and intensification of the process in
sintering plants of the Ukrainian S.S.R. Met. i gornerud. prom. no.6.
10-13 N-D '63. (MIRA 18:1)

YEFIMENKO, G.G., inzh.; VOYTANIK, S.T., inzh.; YEFIMOV, S.P., inzh.; MACHKOVSKIY, A.I., inzh.; RUDKOV, A.K., inzh.; RUDKOVSKIY, G.I., inzh.; ~~Prinimali~~ uchastiye: KOVALEV, D.A.; GOTOVTSEV, A.A.; VASIL'YEV, G.S.; ZEMLYANOV, A.A.; KUKUSHKIN, S.N.; MATYNA, M.G.; LOVCHANOVSKIY, V.A.; KRAMNIK, T.A.; NECHESOVA, N.I.; MARTYENKO, V.A.; KURAKSIN, D.I.; LETYAGIN, N.L.

Intensifying the sintering process by the use of a special charge wetting device. Stal' 23 no.12:1061-1064 D '63. (MIRA 17:2)

1. Dnepropetrovskiy metallurgicheskiy institut, zavod im. Dzerzhinskogo i Yuzhnyy gornoobogatitel'nyy kombinat. 2. Dnepropetrovskiy metallurgicheskiy institut (for Kovalev, Gotovtsev, Vasil'yev, Zemlyanov, Kukushkin).
3. Zavod im. Dzerzhinskogo (for Matyna, Lovchanskiy, Kramnik, Nechesova).
4. Yuzhnyy gornoobogatitel'nyy kombinat (for Martynenko, Kuraksin, Letyagin).

SELEZNEV, A.Ye.; MACHKOVSKIY, A.K., red.; DYNIN, I.A., red.izd-va;
ISLENT'YEVA, P.G., tekhn.red.

[Equipment of iron sintering plants] Oborudovanie aglomeratsionnykh fabrik chernoi metallurgii. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960.
320 p. (MIRA 14:1)

1. Glavnyy aglomeratchik Dnepropetrovskogo sovnarkhoza (for Machkovskiy).
(Sintering--Equipment and supplies)

MACHKOVSKIY, B.M.

Some peculiarities of the course of silicosis complicated by
pulmonary cancer. Vrach.delo no.12:1305 D '56. (MIRA 12:10)

1. Krasnogorovskaya bol'nitsa Mar'inskogo rayona Stalinskoy obl.
(LUNGS--DUST DISEASES) (CANCER)

MACHKOVSKIY, G.

Republic conference of key road officials and specialists of
Kazakhstan. Avt.dor. 20 no.7:31-32 JI '57. (MIRA 10:10)
(Kazakhstan--Roads)

MACHKOVSKIY, G.I.; KHIGEROVICH, M.I., doktor tekhn. nauk, prof., red.;
KASHKIN, S.K., nauchnyy red.; GLEZAROVA, I.L., red. izd-va;
BOROVNEV, N.K., tekhn. red.

[French - Russian dictionary on cement and concrete]Frantsuzsko -
russkii slovar' po tsementu i betonu. Pod red. M.I.Khigerovicha.
Moskva, Gosstroizdat, 1962. 310 p. (MIRA 15:11)

(French language--Dictionaries--Russian)

(Cement--Dictionaries)

(Concrete--Dictionaries)

Mac hkovskiy, V.A.

AUTHORS: Vasyutin, F.P., Demert'yev, V.M., Klemper, K.S., and Machkovskiy, V.A. 130-3-3/21

TITLE: Signalling Device for the Limiting Level of Water in a Scrubber. (Signalizator predel'nogo urovnya vody v scrubbere).

PERIODICAL: Metallurg, 1958, No.3, pp.6-7 (USSR).

ABSTRACT: The authors briefly discuss methods of fixing the level of water in the high-pressure scrubber beyond the dry dust catchers of blast furnaces. They give two examples, a self-flushing type (Fig.1) and one with a float-operated valve (Fig.2). Both systems are unreliable because of pressure variations (especially when furnaces are operating at high top pressure) and the latter also because of corrosion and scaling. The authors go on to give a brief account of a radiation method for indicating water level in the scrubber, in which a radioactive source (cobalt) and a detector are so arranged on opposite sides of a float chamber that when the water reaches the appropriate level it cuts off an appreciable proportion of the radiation to the detector; a system of relays then causes an alarm to operate. The radioactive source is contained in a special container which

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Signalling device for the limiting level of water in a scrubber.
can easily be replaced. The system is recommended for
determining dust levels in dust bags and for
incorporation in an automatic two-position water-level
regulator for scrubbers.
There are 4 figures.

ASSOCIATION: Makeyevka Metallurgical Works
(Makopovskiy Metallurgicheskiy Zavod).

AVAILABLE: Library of Congress.

Card 2/2

MACHROVSKIY, V. A.

PHASE I BOOK EXPLOITATION

SOV/4461

Akademiya nauk Latvyskoy SSR

Nauka - proizvodstvo; kratkiye annotatsii rabot, vpolnennykh dlya promyshlennosti i stroitel'stva, vyp. 4 (From Science to Production; Short Annotations of Work Accomplished for Industry and Construction, Vol. 4) Riga, 1959. 119 p. 1,000 copies printed.

Editorial Board: S. B. Aynbinder, Candidate of Technical Sciences, M. P. Zakis, Candidate of Economic Sciences, A. K. Malmeyster, Corresponding Member, Academy of Building and Architecture SSSR, P. N. Odintsov, Corresponding Member, Academy of Sciences Latvyskaya SSR, and K. K. Flaude (Resp. Ed.) Academician, Academy of Sciences Latvyskaya SSR; Ed.: Ch. Shklennik; Tech. Ed.: R. Bokman.

PURPOSE: This book is intended for construction and industrial scientific personnel, especially those concerned with the use of radioactive isotopes.

COVERAGE: The book contains 44 articles presenting the results of work accomplished at institutes of the Latvian Academy of Sciences in 1958. The articles, which deal with assorted problems in the mechanical, building, and chemical

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From Science to Production (Cont.)

SOV/4/61

industries, are grouped in the following sections: automation and mechanization of industrial processes, machinery construction, construction and construction materials, chemical technology, and industrial economy. References accompany individual articles.

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Introduction

AUTOMATION AND MECHANIZATION OF INDUSTRIAL PROCESSES

3

Radioactive Tagging of Welded Butts in Uninterrupted Hot Rolling
[Institut fiziki (Institute of Physics), TsNITMASH (Central Scientific Research Institute of Technology and Machinery), and Makeyevskiy metallurgicheskiy zavod imeni S. M. Kirova (Makeyevka Metallurgical Plant imeni S. M. Kirov)]

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Workers of the Institute of Physics, A. A. Genis, I. M. Taksar and V. A. Yanushkovskiy, worker of the TsNITMASH, instructor in uninterrupted-rolling operations, A. N. Iroshnikov, and engineer of

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From Science to Production (Cont.)

SOV/4461

the Makeyevka Metallurgical Plant imeni S. M. Kirov, V. A. Machkovskiy, took part in the development of the tagging method.

URAP-3L Universal Radioactive Instrument [Institute of Physics, and Tallinskiy zavod KIP(Tallinn KIP Plant)]

The circuit of the instrument was developed by workers of the Radioactive Checkup-Method and Automation Laboratory of the Institute of Physics, Kh. E. Gunne, V. N. Pozdnikov, and V. A. Yanushkovskiy.

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RPRU-5-Type Radioactive Recorder of the Level Position [Institute of Physics, Tallinn KIP Plant, and Slantsekhimicheskiy kombinat "Kiviyli" ("Kiviyli" Shale Chemical Combine), Estonskaya SSR]

Workers of the Institute B. V. Barabanov and V. Ya. Yanushkovskiy, workers of the KIP Tallinn Plant, V. M. Znamenskiy, K. Yu. Varandi, and K. K. Shpor, and worker of the "Kiviyli" Combine, I. S. Stekol'shchikov, took part in the development and implementation of the instrument.

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~~Card 3/15~~

8(2)

AUTHORS:

Klempner, K. S., Machkovskiy, V. A., Shlyakhovetskiy, Ye. S.

SOV/32-25-5-42/56

TITLE:

Simplified Construction of a Radioactive Relay (Uproshchennaya konstruktsiya radioaktivnogo rele)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 623-624 (USSR)

ABSTRACT:

In this case the voltage stabilization of the current supply of the counter of radioactive donors with relay effect, operating with stronger absorption ($\mu d > 4$) and having a time constant of the integrating chain of the magnitude of one second was excluded and thus the construction of the relay simplified. The relay construction was made with a thyatron cell of the type TsNIIChM with a reaction threshold of the magnitude of 10 pulses/sec. As may be seen from the scheme of the apparatus (Fig), a rectifier (connected by way of selenium poles) and the thyatron cell are present. The anode connection of the thyatron contains an electromagnetic relay of the type MKU-48. In the case of the rectifier the high-tension can be earthed on the positive as well as the negative pole so that the tube can be connected in any way desired. A variant of the scheme without transformer has also been worked out.

Card 1/2

Simplified Construction of a Radioactive Relay

SOV/32-25-5-42/56

There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Makeyevskiy metallurgicheskiy zavod im. S. M. Kirova
(Makeyevka Metallurgical Plant imeni S. M. Kirov)

Card 2/2

S/133/60/000/011/007/023
A054/A029

AUTHORS: Machkovskiy, V.A., Khil'ko, M.M.

TITLE: Radiometric Investigation of the Sintering and the Wear of
Open-Hearth Furnace Bottoms

PERIODICAL: Stal', 1960, No. 11, pp.995-996

TEXT: The sintered bottom of open-hearth furnaces is one of the most important refractory parts of the furnace and under the influence of chemical and physical interactions with slag, metal and atmosphere, it is subject to considerable wear and tear, making repair work necessary which takes up about 2-3.5% of the calendar time. Several scientists: B.Ya. Pines (Ref.1), V.A. Dement'yev (Ref.2) and A.S. Berezhnoy (Ref.3) investigated the problems connected with the wear of the sintered layer which depends on the quality of sintering and on the melting technology applied. A.S. Berezhnoy put forward a theory according to which the most essential phase of the chemical reaction between magnesite powder and slag is that in which periclase cores are humidified with the liquid melt and during which process ferro and manganese oxides gradually diffuse in the periclase crystals and form solid solutions with manganese. At the same time magnesium is dissolved in the liquid melt, form-

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Radiometric Investigation of the Sintering and the Wear of Open-Hearth Furnace Bottoms

ing $MgO \cdot Fe_2O_3$, which forms also solid solutions with MgO . Magnesium composes a continuous series of solid solutions with FeO , which display refractory properties, provided the FeO content is not high. In order to investigate this problem, tests were carried out with radioactive isotopes. At several places of the furnace bottom and various depths β -radioactive isotopes (Ca^{45} , P^{32} and Sr^{89}) were placed which mingled with the slag, after the destruction of the bottom. At each melting and before deoxidation (before the given isotope becomes effective) samples were taken and the wear of the bottom could be defined in millimeters of the melt. The rate of the bottom-wear was plotted in graphs showing that the optimum service life can be obtained with a sintered layer 50 mm thick. The isotope tests also revealed the chemical aspects of the process and enabled the establishment of optimum sintering conditions for the bottom, requiring 4 hours during which about 20 minutes are spent on preparing the bottom, 60 minutes on cleaning, 15 minutes on heating, 50 minutes on feeding the magnesite powder, 45 minutes on repeated heating, 40 minutes on fluxing and 10 minutes on heating. This method is some 40 minutes

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Radiometric Investigation of the Sintering and the Wear of Open-Hearth
Furnace Bottoms

shorter than the conventional and consequently the furnace output is increased
considerably. There are: 1 figure, 2 tables and 3 Soviet references.

ASSOCIATION: Makeyevskiy metallurgicheskiy zavod (Makeyevka Metallurgical
Plant)

1. Makeyevskiy metallurgicheskiy zavod.
(Open-hearth furnaces--Maintenance and repair)
- 

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18.3200

78181

SOV/133-60-3-6/24

AUTHORS:

Elimelakh, R. Z., Machkovskiy, V. A., Shlyakhovetskiy,
Ye. S. (Engineers)

TITLE:

Application of Thinning Admixtures for Decreasing
Contamination of Rimmed Steel by Slag

PERIODICAL:

Stal', 1960,²⁰ Nr 3, pp 219-220 (USSR)

ABSTRACT:

This is a report on test-pouring of large ingots from low-carbon rimmed steel of 08sb and 08Asb type (composition not given) at Makeyevskiy Metallurgical Plant (Makeyevskiy metallurgicheskiy zavod). The head crop in low carbon steels is higher than in other steels by 1.5% or more (which at Makeyevskiy Plant results in the loss of 200 tons of steel per month). The previous experiments established a good effect of slag-thinning admixtures on the degree of their absorption by metal only for the small ingots up to 3.1 tons. The present test was conducted on large ingots. Pouring was performed on 8- and 4-place stools. Rate of pouring was:

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Application of Thinning Admixtures for
Decreasing Contamination of Rimmed Steel
by Slag

78181

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0.21-0.16 m/min and 0.38-0.23 m/min. In 2.5-3 min after filling up the mold, 2.5 kg (350 g/ton) of admixtures were added to the surface of metal (with simultaneous admission of radioactive calcium) as follows: 1st ingot, no admixtures; 2nd ingot, sand only; 3rd, glass only; 4th, 35% scale and 65% sand. After a few minutes, in molds covered by admixtures the surface of metal was covered by the liquid, mobile, foamy slag. On ingots without admixtures (for comparison) the slag remained hard and could be pulled inside of metal by convective flows. The Ca^{45} isotope with half-life of 152 days was selected as radioactive indicator. Results of investigation are given in Fig. 2. The authors conclude as follows: The least depth of metal contamination by slag crust takes place at the pouring rate of 0.16-0.22 m/min. The absorption of slag by steel is sharply reduced by introduction of admixtures (crushed glass or the mixture of scale with sand) to the surface of rimming metal, as was demonstrated by the radioactive indicators. There are 2 figures.

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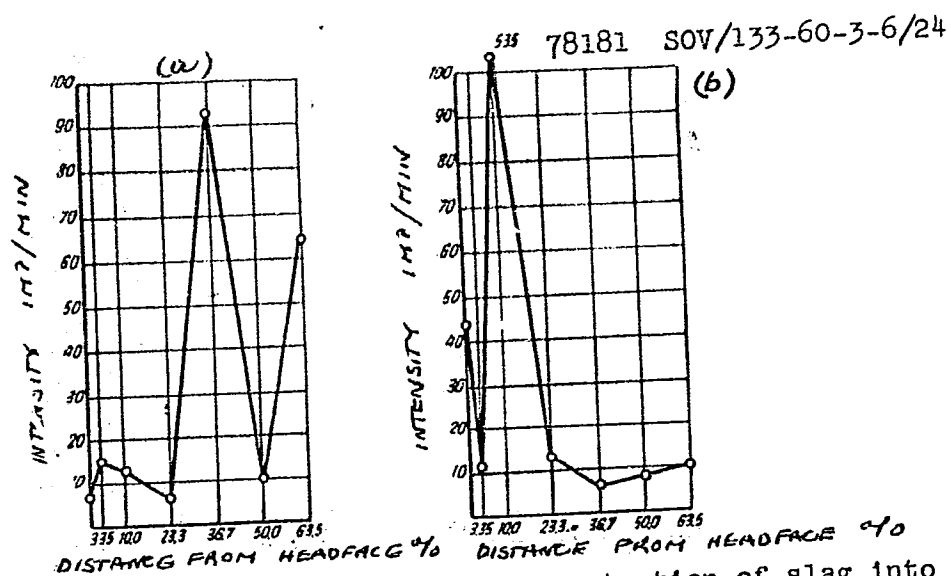
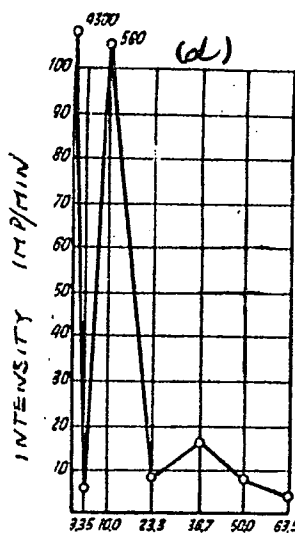
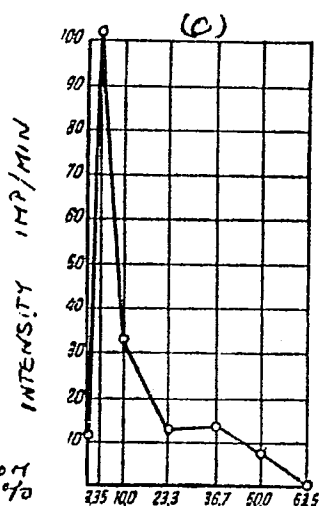


Fig. 2. Relationship between depth of penetration of slag into metal (intensity of emission of nonmetallic inclusions sedimentation) and application of thinning admixtures: (a) without admixtures; (b) with admixture of sand; (c) with admixture of glass; (d) with mixture of scale and sand.

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SOV/133-60-3-6/24

DISTANCE FROM
HEAD FACE %

DISTANCE FROM
HEAD FACE %

ASSOCIATION: Makeyevskiy Metallurgical Plant (Makeyevskiy metallurgicheskiy zavod).

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S/137/62/000/003/012/191
A006/A101

AUTHORS: Macnkovskiy, V. A., Shiyakhovetskiy, Ye. S.

TITLE: Introduction to industrial practice of device based on the effect of nuclear radiation

PERIODICAL: Referativnyy Zhurnal, Metallurgiya, no. 3, 1962, 7, abstract 3V46
(V sb. "Radiakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 3", M.: Gos. Gostoptekhnizdat, 1961, 144)

TEXT: At the Plant imeni Kirov several instruments were assimilated which are based on the effect of radioactive devices. A signalling device was mounted on a high-pressure scrubber of a blast furnace. The UR-4 (UR-4) type level-meter was mounted on the intermediate industrial container of the ammonium department of the oxygen shop. The design and operational principles of these devices are described. Similar instruments at the Plant imeni Kirov can be used to control the flow of hydro-slurry removal at multi-cyclones of a sintering shop and the completeness of fuel combustion in TsEVS boilers on the basis of the density of exhausted fume gases; they can also be used to mark the welded butts of hot rolled metal during the rolling of endless strip.

[Abstracter's note: Complete translation]

K. Ursova

Card 1/1

VANZHA, A.N.; MACHKOVSKIY, V.A....

New developments in research. Stal' 23 no.10:907 0 '63.
(MIRA 16:11)

MACHKOVSKIY, V.A.; KHARINA, V.I.

Optimum composition of the powder for reconditioning of open
hearth bottoms. Metallurg 10 no.10:21-22 0 '65.

(MIRA 18:10)

1. Makeyevskiy metallurgicheskii zavod.

ALFEROV, K.S.; MACHKOVSKIY, V.A.; MERSHCHIY, N.P.

New developments in research. Stal' 25 no.10:961 0 '65.
(MIRA 18:11)

KHIL'KO, M.M.; MOLCHANOVA, M.I.; MACHKOVSKIY, V.A.

Making and operating a rammed bottom in open-hearth furnaces.
Met.1 gornorud.prom. no.5:78-80 S-O '62. (MIRA 16:1)

1. Makeyevskiy metallurgicheskiy zavod imeni Kirova.
(Open-hearth furnaces—Maintenance and repair)

WACHLANSKI, T.

Chrzasczczewska, A.; Oprawda, B. 1, 2-distearylglycerol phosphatide and streptomycin. p. 461.
ROSEWIKI CHEM, Warszawa, Vol. 2, no. 1/1, 1961.

St: Monthly List of East European Accessions, (JAN), 11, Vol. 4, no. 1, Oct. 1960.
Incl.

S/081/62/000/022/028/068
B144/B101

AUTHORS: Chrzęszciewska, Anna, Machlański, Tadeusz, Władyga, Ryszard

TITLE: Study of diacylglycerol phosphoric acids and characteristic salts of their derivatives

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 228, abstract 22Zh245 (Zesz. nauk Univ. Łódzk., ser. 2, no. 10, 1961, 191-194 [Pol.; summary in Eng.])

TEXT: In searching for substances suitable for identifying diacylglycerol phosphoric acids (I glycerol phosphoric acid) their monoguanidine salts were obtained. A hot solution of 8.5 mmoles 1,2-distearyl-I (Ia) in 100 ml acetone was added to 8.5 mmoles guanidine carbonate (II base) in 50 ml alcohol; after heating for 6 hrs at $\sim 100^{\circ}\text{C}$ and hot filtering it is cooled and Ia·II is filtered; yield 53%, melting point $33-34^{\circ}\text{C}$ [from acetone-alcohol (1 : 1)]. At 85°C a mixture of 78 mmoles water with 20 ml ether is gradually added to a mixture of 35 mmoles $\text{C}_{15}\text{H}_{31}\text{COOCH}_2\text{CH}(\text{OCOC}_{15}\text{H}_{31})\text{CH}_2\text{OH}$ and 35 mmoles P_2O_5 . The melt is dissolved

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Study of diacylglycerol phosphoric ...

S/081/62/000/022/028/088
B144/B101

in 180 ml C_6H_6 , 5 drops of water and 3 ml of absolute alcohol are added, the decantate is added gradually to a solution of 35 mmoles of II-carbonate in 10 ml of 50% alcohol, cooled to $5^{\circ}C$, 100 ml of acetone are added, and the salt of 1,2-dipalmityl-I and II is filtered off; yield 42%, melting point $72-73^{\circ}C$ (from CH_3OH). In a similar way the salt of 1,3-dipalmityl-I and II was obtained; yield 47.3%, melting point $76-77^{\circ}C$.
[Abstracter's note: Complete translation.]

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Card 2/2

CHYZASZCZEWSKA, Anna; MACHLANSKI, Tadeusz; WLADYGA, Ryszard

Diacylglycerinphosphoric acids and their derivatives in the
form of salts. Nauki matem przyrod Lodz no.10:191-194 '61.

1. Department of Organic Chemistry, University, Lodz.

MACHLEJD, Jerzy, inz.

Coaxial cable produced by the M. Buczek Cable Works in Ozarow.
Wiad elektrotechn 30 no.5:159-161 My '62.

MACHNEV, B.N., inzh. (Kolomna); NAYMAN, A.M., inzh. (Kolomna); NESTEROV, E.I.,
inzh. (Kolomna); SHAKHRAY, D.I., inzh. (Kolomna); KHLEBNIKOV, Yu.V.,
inzh. (Kolomna)

Prospects of the use of gas-turbine locomotives. Zhel.-dor.transp. 45
no.12:48-52 D '63. (MIRA 17:2)

14(0)

SOV/92-58-11-28/36

AUTHOR: Machnev, I.

TITLE: A Master-driller (Burovykh del master)

PERIODICAL: Neftyanik, 1958, ³Nr 11, p 30 (USSR)

ABSTRACT: The author outlines the career of V. Solokhin, now one of the leading drilling foremen. For his outstanding services as a driller he was decorated and promoted during the World War II and, overcoming most serious obstacles due often to the lack of proper equipment, learned the new job of turbine drilling. In 1956 the drilling crew headed by V. Solokhin managed to drill 23,181 m at an average drilling speed of 2895 m per rig per month. Last year his crew attained the record drilling speed of 4431 m per rig per month, and hopes to break its own record in 1958. Taking the remarkable services of V. Solokhin into consideration, the personnel of the first oilfield of the Priazovneft' Petroleum Production Administration unanimously elected him to be their delegate to the Supreme Soviet of USSR. There is 1 photograph showing the picture of V. Solokhin.

Card 1/2

2225 Machnev, Ivan

Kolkhozmye Ninogradari. (Kolchoz IM. Michurina, Krasnoarmey Skogo Raiona).
Krashnodar, KN. IZD., 1954. 202. 22sm. (Kubants Y Na VSKHV). 3.000 EKZ. 40 k.-
(54-55833) p 634.83T (47.893)

TECHNIK, M. A.; MACHNEV, I. I.

Embolism

Case of air embolism in pneumperitoneum. Probl. tub. No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, August ¹⁹⁵² ~~1953~~, Unclassified.

MACHNEV, V.E.V.

Elektroiskrovoe uprochnenie rezhushchego instrumenta (Electric spark hardening of a cutting tool). Moskva, Mashgiz, 1952. 13 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

MACHNEV, Yu.P., inzh.-kapitan 2-go ranga

Fuel supply of American ships at sea underway. Mor. sbor. 47 no.6:
82-84 Je '64. (MIRA 18:7)

FAGASINSKI, Andrzej; MACHNICKA, Barabar (Warszawa)

Benzine as anthelmintic drug in foxes. Wiadomosci parazyt.,
Warsz. 2 no 5 Suppl:185-186 1956.

1. Katedra Parazytologii i Chorob Inwazyjnych SGGW.
(ANTHELMINTICS,
gasoline in foxes (Pol))
(PETROLEUM PRODUCTS, therapeutic use,
gasoline as anthelmintic drug in foxes (Pol))

COUNTRY : Poland R
 CATEGORY : Diseases of Farm Animals. Diseases caused by
 bacteria and fungi
 ASS. SOUR. : Pathol., No. 1 1959, No. 19
 AUTHOR : Dworek, A.; Serokowa, D.; Machnicka, B.
 INST. : -
 TITLE : Brucellosis in Foxes
 ORIG. PUB. : Zool. epidemiol., 1959, 11, No.3, 307-308
 ABSTRACT : During serological investigation of foxes at one
 of the fur-animal breeding farms it was found
 that 51% of sera reacted positively to brucellar
 antigen. It is assumed that the slaughter house
 waste products fed to the animals were the
 source of infection.-- From the authors' summary.

CARD: 1/1

MACHNICKA, Barbara (Warszawa)

Behavior of blood serum proteins in dogs and foxes infected with
Hepatitis contagiosa canis. Rocz nauk roln wet 70 no.1/4:240-241
'60, (EEAI 10:9)

(Blood serum)	(Proteins)	(Dogs)	(Foxes)
	(Hepatitis)		

FAGASINSKI, Andrzej; MACHNICKA, Barbara

Changes in blood proteins in silver foxes during the administration of therapeutic portions of piperazine adipate and ethylene tetrachloride. Wiadomosci parazyt. 7 no.2:347-350 '61.

1. Zaklad Parazytologii i Chorob Inwazyjnych Wydz. Wet. SGGW, Warszawa.

(BLOOD PROTEINS pharmacol) (PIPERIDINES pharmacol)
(TETRACHLOROETHYLENE pharmacol) (CARNOVORA dis)

MACHNICKA-ROGUSKA, Barbara

Conditions for the cultivation of tapeworms Pseudophyllidea in vitro. Wiad. parazyt. 7 no.3:561-566 '61.

1. Zaklad Parazytologii PAN, Warszawa.
(TAPEWORMS culture)

MACHNICKA-ROGUSKA, Barbara; FAGASINSKI, Andrzej

Serum proteins in silver foxes following administration of therapeutic doses of piperazine adipate and tetrachloroethylene. Acta parasit Pol 10 no.1/11:97-103 '62.

1. Katedra Parazytologii, Szkoła Główna Gospodarstwa Wiejskiego, Warszawa, Grochowska 272.

MACHNICKA, B.

"Cellular dose and age of host in the induction of tolerance"
by L.Brent, G.Gowland. Reviewed by B.Machnicka. Kosmos biol
11 no.4:453-454 '62.

*

MACHNICKA, B.

"Species differentiation in fish by electrophoretic analysis
skeletal muscle proteins" by H.A.Lillevik, C.L.Schloemer.
Reviewed by B.Machnicka. Kosmos biol 11 no.4:454-455 '62.



MACHNICKA, B.

"The use of computers in systematics" by T.L.Jahn. Reviewed by
B.Machnicka. Kosmos biol 12 no.3:268-270 '63.

MACHNICKA-ROGUSKA, Barbara; ZWIERZ, Czesław

Hemagglutination reaction in human *Taenia saginata* infection.
Wiad. parazyt. 10 no.4:467-468 '64

1. Zakład Parazytologii Polskiej Akademii Medycznej, Warszawa,
i Instytut Medycyny Morskiej, Gdańsk-Wrzeszcz.

MACHNICKA-ROGUSKA, Barbara; ZWIERZ, Czeslaw

Haemagglutinative reaction in human individuals infested
with *Taenia saginata*. Bull. Inst. Mar. Med. Gdansk 15 no.3:
145-146 '64

1. From the Department of Parasitology of the Polish Academy
of Sciences and from the Institute of Marine Medicine in
Gdansk.

POLAND

MACINICKA-ROGUSKA, Barbara

1. Dept. of Parasitology, Polish Academy of Sciences (Zaklad Parazytologii PAN), Warsaw; 2. Dept. of Microbiology, Warsaw Medical Academy

Warsaw, Acta parasitologica polonica, Fasc. 33, Sept 1965, pp 337-347

"Preparation of Taenia saginata antigens and chemical analysis of antigenic fractions."

POLAND

MACHNICKA-ROGUSKA, Barbara; ZWIERZ, Czeslaw

1. Dept. of Parasitology, Polish Academy of Sciences (Zaklad Parazytologii PAN), Warsaw (for Machnicka-Roguska?); 2. Dept. of Microbiology, Warsaw Medical Academy (for ?); 3. Institute of Marine Medicine, Gdansk (for ?)

Warsaw, Acta Parasitologica Polonica, Fasc. 4, 31 Mar 1966, pp 27-33

"Serological studies on Taenia saginata."

MACHNICKI, B.

Investment discipline in the light of the decision of the Council of Ministers. p. 9.

GOSPODARKA WIESNA, Vol. 7, No. 11 Nov. 1955

(Polskie Wydawnictwa Gospodarcze) Warszawa

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1

Jan. 1956

MACHNICKI, B.

How to carry out decision No. 508 of the Council of Ministers. p. 6.

GOSPODARKA MIESNA. (Polskie Wydawnictwa Gospodarcze) Warszawa. Vol. 8, no. 2, Feb. 56.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 5, no. 7, July 1956.

MACHNICKI, B.

POLAND/Chemical Technology. Chemical Products
and Their Applications. Elements. Oxi-
des. Mineral Acids. Bases. Salts.

H-8

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23959

Author : Machnicki, B.

Inst : -

Title : Accelerated Nitrogenation of Calcium Carbide
Method with the Increased Yield.

Orig Pub : Energ. przemysl. Gospod. cieplna, 1957, 5,
No 3, 112-113

Abstract : Powdered CaC_2 is nitrogenated in furnaces
provided with carbon electrodes employing
current of approximately 110 a and voltage
of 83 v. The reaction temperature in furna-
ces is maintained at 1150° . The rate of this

Card : 1/2

MACHNICKA-ROGUSKA, Barbara

The occurrence of antigen in the blood and urine of rabbits
in the course of experimental infection with *Trichinella spiralis*.
Wlad. parazyt. 9 no.5:465-475 '63

1. Department of Parasitology, Polish Academy of Sciences,
Warsaw .

*

LEGEZYNSKI, S.; MACHNICKI, S.

Diagnosis of gonorrhea in women by the antigen method. Polski tygod.
lek. 7 no. 45:1475-1476 10 Nov 1952. (CJML 24:1)

1. Of the Institute of Medical Microbiology (Head--Prof. Stanislaw
Legczynski, M.D.) and of the Third Department of the Clinical Hospital,
Krakow Medical Academy.

MACHNICKI, Stanislaw (Bochnia, Bernardynska 6)

Use of lupulin in the treatment of trichomonas vaginalis infection.
Gin. polska 28 no.5:555-558 Sept-Oct 57.

1. Z Oddzialu III - Gin. Pol. P. S. K. A. M. w Krakowie. Ordynator:
dr A. Konstantynowicz.

(VAGINITIS, TRICHOMONAS, ther.

lupulin from hop plants (Pol))

(PIANTS, ther. use

lupulin from hop plants in trichomonal vaginitis (Pol))

MACHNIEWICZ, J.

Calculations of the amounts of combustion gases and of aspirated air at the open-hearth process. J. Racz and J. Machniewicz. *Polish* 23, 391-(1957).—Math. All the formulas are derived or presented necessary for establishing the C, H, O, N balance and are applied in numerical examples. Werner Jacobson

3

RS

CIUBA, Zbigniew, mgr inz.; MACHNIEWICZ, Jerzy, mgr inz.

Research on the thermal work of reheating side-charged furnaces in
hot sheet metal rolling mills. Huta Lenina Prace no.12:56-68 '62.

PLATOWSKI, Jerzy; MACHNIEWSKI, Leonard

Procedure in gastric and duodenal hemorrhage. Polski przegl. chir. 30
no.5:496-499 May 58.

(STOMACH, hemorrh.
ther. (Pol))

(DUODENUM, hemorrh.
same)

PIENIAZEK, J.; WISNIEWSKA, J.; MACHNIK, B.

The character of the plasmolysis in the cortical layer of apple shoots. Bull. acad. Pol. sci. [Biol.] 13 no.4:243-245 '65.

1. Submitted January 11, 1965.

MACHNIK, Jan

Further mechanization of parcel transportation. Cs spoje 9
no.3:24-25 Je '64.

1. Manager OKSS, Zilina.

DZIECIELSKA-MACHNIKOWSKA, S.; MACHNIKOWSKI, R.

Technical civilization and man. Horyz techn 17 no.7:5-5,28
Jl'64.

MACHNO, Jozef

Current problems of maritime management. Tech gosp morska
14 no.1:1-2 Ja'64.

POLAND/Chemical Technology - Chemical Products and Their
Application. Dyes and Chemical Treatment of
Textile Materials.

h-34

MACHNOWSKA Z.

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59652

Author : Machnowska Zofia

Inst :

Title : The Fixing of Starch Sizing in Fabrics by Means of
Synthetic Resins.

Orig Pub : Wlokiennictwo, 1956, 5, No 5, 118-119

Abstract : For fixing starch sizings in cellulose fabric, urea (UR)
and melaminformaldehyde resins (MFR) are used. They in-
teract chemically with the starch and cellulose and in
this manner increase the stability of the sizing to
washing. After six short washings of the sized fabric,
72% of the starch is preserved, while without the resins
only 20% remains. The mechanical stability of the fabric
is not decreased. MFR gives better results than UR.

Card 1/2

- 109 -

COUNTRY : Poland
CATEGORY :

H-34

ABO. JOUR. : RZKhim., No. 1959, No. 88789

AUTHOR : Machnowska, Z.
 INST. : Textile Institute
 TITLE : Dispersions of Thermoplastic Resins and
 Their Utilization in the Textile Industry

Textile Institute

TEXT. : Textile Institute
 IITL : Dispersions of Thermoplastic Resins and
 Their Utilization in the Textile Industry

ORIG. PUB. : Przegl. włókienn., 1958, 12, No 12, Biał.
Inst. włókienn., 10, No 9, 19

ABSTRACT : New preparations, Polaprets OW (I), OW PC (II), and AE (III), have been synthesized and are being manufactured. I and II are aqueous dispersions of polyoctene-vinyl, and are similar in their properties to the Swiss preparation Vibatext A. III is an aqueous dispersion of polyacrylic ester and corresponds to the Swiss preparation Dierylan WG. Characteristics of I, II and III are described, and also the procedures of their utilization in the industry. -- T. Budkevich

CRD:

284-

MACHO, L.

The determination of higher fatty acids in biological material. T. R. Niederland, P. K. Kovács, R. J. Dzurik, and L. Macho (Komenský Univ., Bratislava, Czech.). *Chem. Abstr.* 70, 522-4(1956)(German summary).—Of the 2 methods, Bloor (C.A. 22, 2181), Káiser and Kapan (C.A. 46, 3104h), and Stern and Shapiro (*J. Clin. Path.* 6, 168(1953)), the last 2 were found to be very suitable. Jan Míčka

EXCEPPTA MEDICA Sec.3 Vol.12/3 Endocrinology Mar 58

MACHO, L.

530. THE EFFECT OF THYROID HORMONE ON THE GLYCOLYTIC ACTIVITY OF BLOOD - Macho L. Endocrinol. Inst., Slovak Acad. of Scis, Bratislava - CLIN. CHIM. ACTA - 1957, 2/4 (345-347) Graphs 1 Tables 1

In rabbits thyroxine treatment caused an increase in the glycolytic activity of the blood, probably by exerting a stimulating effect on the enzyme systems taking part in the metabolism of glucose in the red blood cells. After thyroidectomy all metabolic processes are slowed down and therefore a lowering of the glycolytic activity of the blood takes place.

MAC No. 2.

CZECHOSLOVAKIA/Human and Animal Physiology - Metabolism.

V-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3755

Author : T.R. Niederland, P.K. Kovaks, R.J. Dzurik, L. Macho

Inst : -

Title : Determination of Fatty Acids in Biological Preparations.

Orig Pub : Lekar. obzor, 1957, 6, No 2, 65-73

Abstract : No abstract.

Card 1/1